

Dario Delle Donne

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,627
citations

279798

23
h-index

302126

39
g-index

43
all docs

43
docs citations

43
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced volcanic hot-spot detection using MODIS IR data: results from the MIROVA system. Geological Society Special Publication, 2016, 426, 181-205.	1.3	121
2	Ash-plume dynamics and eruption source parameters by infrasound and thermal imagery: The 2010 Eyjafjallajökull eruption. Earth and Planetary Science Letters, 2013, 366, 112-121.	4.4	99
3	The 15 March 2007 explosive crisis at Stromboli volcano, Italy: Assessing physical parameters through a multidisciplinary approach. Journal of Geophysical Research, 2011, 116, .	3.3	83
4	The onset of the 2007 Stromboli effusive eruption recorded by an integrated geophysical network. Journal of Volcanology and Geothermal Research, 2009, 182, 131-136.	2.1	82
5	Earthquake-induced thermal anomalies at active volcanoes. Geology, 2010, 38, 771-774.	4.4	79
6	Radon surveys and real-time monitoring at Stromboli volcano: Influence of soil temperature, atmospheric pressure and tidal forces on ²²² Rn degassing. Journal of Volcanology and Geothermal Research, 2009, 184, 381-388.	2.1	78
7	Infrasonic Early Warning System for Explosive Eruptions. Journal of Geophysical Research: Solid Earth, 2018, 123, 9570-9585.	3.4	76
8	Tracing the differences between Vulcanian and Strombolian explosions using infrasonic and thermal radiation energy. Earth and Planetary Science Letters, 2009, 279, 273-281.	4.4	75
9	Blast waves from violent explosive activity at Yasur Volcano, Vanuatu. Geophysical Research Letters, 2013, 40, 5838-5843.	4.0	67
10	High-frame rate thermal imagery of Strombolian explosions: Implications for explosive and infrasonic source dynamics. Journal of Geophysical Research, 2012, 117, .	3.3	60
11	Radiative heat power at Stromboli volcano during 2000–2011: Twelve years of MODIS observations. Journal of Volcanology and Geothermal Research, 2012, 215-216, 48-60.	2.1	53
12	Volcano seismicity and ground deformation unveil the gravity-driven magma discharge dynamics of a volcanic eruption. Nature Communications, 2015, 6, 6998.	12.8	52
13	Thermal Remote Sensing for Global Volcano Monitoring: Experiences From the MIROVA System. Frontiers in Earth Science, 2020, 7, .	1.8	52
14	Geophysical precursors of the July-August 2019 paroxysmal eruptive phase and their implications for Stromboli volcano (Italy) monitoring. Scientific Reports, 2020, 10, 10296.	3.3	50
15	Late Pliocene–Quaternary evolution of outermost hinterland basins of the Northern Apennines (Italy), and their relevance to active tectonics. Tectonophysics, 2009, 476, 336-356.	2.2	48
16	Tracking dynamics of magma migration in open-conduit systems. Bulletin of Volcanology, 2016, 78, 1.	3.0	42
17	Tracking Pyroclastic Flows at Soufrière Hills Volcano. Eos, 2009, 90, 229-230.	0.1	38
18	Forecasting Effusive Dynamics and Decompression Rates by Magmastatic Model at Open-vent Volcanoes. Scientific Reports, 2017, 7, 3885.	3.3	38

#	ARTICLE	IF	CITATIONS
19	Volcanic plume and bomb field masses from thermal infrared camera imagery. <i>Earth and Planetary Science Letters</i> , 2013, 365, 77-85.	4.4	35
20	Spatially resolved SO ₂ flux emissions from Mt Etna. <i>Geophysical Research Letters</i> , 2016, 43, 7511-7519.	4.0	34
21	Dynamics of Strombolian Activity. <i>Geophysical Monograph Series</i> , 0, , 39-48.	0.1	32
22	Gas mass derived by infrasound and UV cameras: Implications for mass flow rate. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 325, 169-178.	2.1	32
23	Seismic sources and stress transfer interaction among axial normal faults and external thrust fronts in the Northern Apennines (Italy): A working hypothesis based on the 1916–1920 time–space cluster of earthquakes. <i>Tectonophysics</i> , 2016, 680, 67-89.	2.2	26
24	Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions. <i>Nature Communications</i> , 2021, 12, 1683.	12.8	26
25	Volcanic CO ₂ tracks the incubation period of basaltic paroxysms. <i>Science Advances</i> , 2021, 7, eabh0191.	10.3	25
26	Modern Multispectral Sensors Help Track Explosive Eruptions. <i>Eos</i> , 2013, 94, 321-322.	0.1	23
27	Exploring the explosive–effusive transition using permanent ultraviolet cameras. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4377-4394.	3.4	22
28	Magma extrusion during the Ubinas 2013–2014 eruptive crisis based on satellite thermal imaging (MIROVA) and ground-based monitoring. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 199-210.	2.1	21
29	Conduit dynamics and post explosion degassing on Stromboli: A combined UV camera and numerical modeling treatment. <i>Geophysical Research Letters</i> , 2016, 43, 5009-5016.	4.0	21
30	Changes in SO ₂ Flux Regime at Mt. Etna Captured by Automatically Processed Ultraviolet Camera Data. <i>Remote Sensing</i> , 2019, 11, 1201.	4.0	20
31	Chapter 9 Thermal, acoustic and seismic signals from pyroclastic density currents and Vulcanian explosions at Soufrière Hills Volcano, Montserrat. <i>Geological Society Memoir</i> , 2014, 39, 169-178.	1.7	19
32	Remote monitoring of building oscillation modes by means of real-time Mid Infrared Digital Holography. <i>Scientific Reports</i> , 2016, 6, 23688.	3.3	18
33	Dynamic Triggering of Mud Volcano Eruptions During the 2016–2017 Central Italy Seismic Sequence. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9149-9165.	3.4	16
34	Hot-spot detection and characterization of strombolian activity from MODIS infrared data. <i>International Journal of Remote Sensing</i> , 2014, 35, 3403-3426.	2.9	12
35	Insights Into the Mechanisms of Phreatic Eruptions From Continuous High Frequency Volcanic Gas Monitoring: Rincón de la Vieja Volcano, Costa Rica. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	12
36	Modeling Volcanic Eruption Parameters by Near-Source Internal Gravity Waves. <i>Scientific Reports</i> , 2016, 6, 36727.	3.3	11

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37	Understanding the SO ₂ Degassing Budget of Mt Etna's Paroxysms: First Clues From the December 2015 Sequence. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	10
38	Magma pressure discharge induces very long period seismicity. <i>Scientific Reports</i> , 2021, 11, 20065.	3.3	9
39	Frequency based detection and monitoring of small scale explosive activity by comparing satellite and ground based infrared observations at Stromboli Volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 283, 159-171.	2.1	7
40	Real-time tephra-fallout accumulation rates and grain-size distributions using ASHER (ASH collector) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	3